

Date: Thu, 1 Jul 93 04:30:14 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #803  
To: Info-Hams

Info-Hams Digest                    Thu, 1 Jul 93                    Volume 93 : Issue 803

Today's Topics:

    20m hot on FD (was Re: Field Day: a bummer!)  
        Another radio in the movie  
        Computer interface for Yaesu FT757GX  
    Daily Solar Geophysical Data Broadcast for 30 June  
        FCC....How long?  
        Field Day: a bummer!  
        Good books on Radio principles ?  
    Need advice re: direction finding @ 900MHz  
        New question pool available by ftp?  
        Oops, need the movie eh?  
    Two-Line Orbital Element Set: Space Shuttle  
        Yaesu FT-202R Manual Needed

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Tue, 29 Jun 1993 19:45:51 GMT  
From: usc!sdd.hp.com!hpscit.sc.hp.com!hplextra!hpfcso!hplvec!  
tcline@network.UCSD.EDU  
Subject: 20m hot on FD (was Re: Field Day: a bummer!)  
To: info-hams@ucsd.edu

Field Day was not a bummer for us. Propagation was much improved over  
last year.

I organized the Novice/Technician station for the Loveland Repeater  
Association (W0DZ) here in Colorado. We never heard anything on 6

meters, but did very nicely on 10 meter phone.

Last year our Novice/Technician station (N0RQV) made 85 contacts on 10 meter phone while the band was open.

This year our Novice/Technician station (N0RQV) made 672 contacts on 10 meter phone. The band was open from 12 noon until about 9:30PM MDT and again from 10:45AM to 12 noon MDT. We ran about 90 watts USB and we couldn't talk fast enough.

Our biggest propagation hole seemed to be to New England and down the Atlantic coast through Virginia. We got Alaska but not PAC (pacific).

73

Date: Thu, 1 Jul 1993 08:46:49 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!  
darwin.sura.net!rouge!cfm1471@network.UCSD.EDU  
Subject: Another radio in the movie  
To: info-hams@ucsd.edu

Ok, just when you thought this thread had died, it comes alive. Enough or too much of a good thing aint bad, if you take it slow. So, I thought that I would resurrect another thread, because Im sure we've had enough of what peoples field day experience is.

New Movie with Ham stuff in it.

Catch the glance of the Kenwood 742A in the Feds car outside the truckstop about 3/4's of the way through the movie.

Charlie

Date: 1 Jul 93 07:38:49 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Computer interface for Yaesu FT757GX  
To: info-hams@ucsd.edu

Bob,

I made an optical link to my FT757GX, using glasfibre. I described it in the Dutch Ham magazine 'Elektron' in 1987 or so. I also have a beta release of control software, written in Turbo-Pascal. You can have the executable if you like.

Another project I did is a stand-alone control unit based on a 6802 microprocessor. It has 100 battery backed up memory channels, a numeric keyboard and 8 7 segment displays, 2 for channel, 6 for frequency. It is a very nice piece of equipment, and does not have the disadvantages of a computer, less rf distortion, no fan noise, no startup, etc. It's built on a piece of rasterboard, and I'm now looking for someone who can develop a printed circuit board for it. I also like to implement other transceivers, where this is only a software question. The software is coded in 6800 assembly.

If you are interested, please let me know, if there is enough interest, I can develop a PC-board.

regards, Gerrit, PA3BYA

From: Gerrit Polder  
CPRO-DLO  
P.O. Box 16  
6700 AA Wageningen  
The Netherlands  
Phone: +31 8370 - 76842  
Email: G.POLDER@CPRO.AGRO.NL

Date: 1 Jul 93 02:42:02 GMT

From: news-mail-gateway@ucsd.edu

Subject: Daily Solar Geophysical Data Broadcast for 30 June

To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 181, 06/30/93  
10.7 FLUX=116.4 90-AVG=112 SSN=095 BKI=2221 2323 BAI=008

```

BGND-XRAY=B2.5      FLU1=4.3E+05   FLU10=1.8E+04   PKI=3232 2323   PAI=011
    BOU-DEV=017,012,014,005,010,023,015,023   DEV-AVG=014 NT      SWF=00:000
    XRAY-MAX= C2.0    @ 0506UT      XRAY-MIN= B2.1    @ 2201UT      XRAY-AVG= B3.3
    NEUTN-MAX= +003%  @ 1455UT      NEUTN-MIN= -002%  @ 2345UT      NEUTN-AVG= +0.2%
    PCA-MAX= +0.1DB @ 2250UT      PCA-MIN= -0.2DB @ 0345UT      PCA-AVG= +0.0DB
BOUTF-MAX=55364NT @ 1257UT      BOUTF-MIN=55332NT @ 1814UT      BOUTF-AVG=55351NT
GOES7-MAX=P:+000NT@ 0000UT      GOES7-MIN=N:+000NT@ 0000UT      G7-AVG=+077,+000,+000
GOES6-MAX=P:+167NT@ 1639UT      GOES6-MIN=N:-088NT@ 0036UT      G6-AVG=+101,-022,-053
    FLUXFCST=STD:115,110,110;SESC:115,110,110 BAI/PAI-FCST=025,020,015/030,025,015
    KFCST=4445 5443 4454 4332 27DAY-AP=017,048    27DAY-KP=3244 4333 4466 4455
    WARNINGS=*SWF;*MAJFLR;*PROTON;*AURMIDWCH;*GSTRM
    ALERTS=
!!END-DATA!!

```

NOTE: The Effective Sunspot Number for 29 JUN 93 was 83.5.  
The Full Kp Indices for 29 JUN 93 are: 2- 2+ 2- 4- 3o 2+ 3- 3-

Date: Wed, 30 Jun 1993 21:27:34 GMT  
From: usc!elroy.jpl.nasa.gov!sdd.hp.com!col.hp.com!news.dtc.hp.com!  
hpscit.sc.hp.com!hplextra!hpcss01!hpwala!joes@network.UCSD.EDU  
Subject: FCC....How long?  
To: info-hams@ucsd.edu

I sent in my license renewal form about a month ago. I realize that one month isn't very long by FCC standards, but I wonder what people's experience has been on this. Since I have no way of confirming that they received my application for renewal I'd like to know how long a wait is typical.

Thanks.

/ Joe Smulowicz (joes@hpwarbz.wal.hp.com)  
/ Hewlett Packard  
/--- Patient Care Monitoring Systems  
/ / / /--- 175 Wyman Street  
/ / /--- Waltham, Massachusetts 02254 TEL 617-290-3760  
/ / / / FAX 617-290-4030  
/ /

Date: 1 Jul 1993 02:16:40 GMT  
From: swrinde!cs.utexas.edu!math.ohio-state.edu!magnus.acs.ohio-state.edu!csn!news.sinet.slb.com!news.San-Jose.ate.slb.com!jones@network.UCSD.EDU

Subject: Field Day: a bummer!  
To: info-hams@ucsd.edu

Wayne Cronin (p00361@psilink.com) wrote:  
: I operated Field Day in class 1D (home station, commercial power) from  
: here in Tempe, Arizona.  
  
: Propagation, to put it nicely, STUNK!!!  
  
: I only operated 6M and 10M, but listened on the other bands, and it  
: seems like they had it no better.  
  
: So, how about it folks? How did it go in other parts of the country?  
: (From what I heard on "Spectrum" on WWCR Saturday night, it was bad  
: everywhere!)  
  
: ---  
: Wayne Cronin WA5VIF  
: p00361@psilink.com

We were about 120 miles north east of you, on the Mogollon Rim. 10M had some pretty good openings for this point in the sunspot cycle... Virgin Islands, Texas, Florida, the north east, and even after everything else went away on 10, there was still one gal from Idaho coming in like she was under the next tree...

73,  
Clark

--  
Disclaimer: The opinions expressed above are mine and not those of Schlumberger because they are NOT covered by the patent agreement!

Phone: (602) 345-3638 Internet: jones@sj.ate.slb.com  
Packet: N7RPQ@K7BUC.AZ.USA.NA RF: N7RPQ  
Snail: Clark Jones, Schlumberger Technologies, 7855 S. River Pkwy #116, Tempe,  
AZ 85284-1825

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Date: 30 Jun 93 22:04:11 EST  
From: sdd.hp.com!nigel.msen.com!caen!malgudi.oar.net!uoft02.utoledo.edu!tulip!  
mohan@network.UCSD.EDU  
Subject: Good books on Radio principles ?  
To: info-hams@ucsd.edu

Hello,

I am interested to know about books which teach fundamentals of Radios.

The library at my school has a lot of books on communication systems and radio principles, but all of them have intense technical formulae and mathematics.

Can you suggest a book which has lots of pictures and describes the radio principles and cover the subject in good detail ?

Thanks a lot for the info :)

--mohan

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+ Mohanakrishna Pakkurti + mohan@jupiter.cse.utoledo.edu +  
+ HOME: 2239 University Hills Blvd #204, Toledo OH 43606. Phone:(419)536-9073 +

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Date: Thu, 1 Jul 1993 06:51:47 GMT  
From: psinntp!iat.holonet.net!bwilkins@uunet.uu.net  
Subject: Need advice re: direction finding @ 900MHz  
To: info-hams@ucsd.edu

This application would be a direct violation of the ECPA. In most cases the phone hands off to the next cell site at the same point on the highway time and time again. In the bay area caltrans is using a vidio camera for flow control and traffic monitoring. The digital image can be interpreted by a computer and the data sent back to a central processing site to get a good overall picture. This system is cheaper than loops in the highway and easier to maintain.

--  
Bob Wilkins n6fri voice 440.250+ 100pl san francisco bay area  
bwilkins@holonet.net packet n6fri @ n6eeg.#nocal.ca.usa.na

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Date: 30 Jun 93 23:47:16 -0700  
From: usc!howland.reston.ans.net!sol.ctr.columbia.edu!hamblin.math.byu.edu!  
yvax.byu.edu!loganj@network.UCSD.EDU  
Subject: New question pool available by ftp?  
To: info-hams@ucsd.edu

Is the new question pool available by ftp? Sorry, but I read through the FAQ and could only find reference to "uxc.cso.uiuc.edu" which seems to have the old question pool.

Thanks and Regards,  
Jim Logan

loganj@cs.byu.edu

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Date: Thu, 1 Jul 1993 08:48:19 GMT  
From: usc!howland.reston.ans.net!darwin.sura.net!rouge!cfm1471@network.UCSD.EDU  
Subject: Oops, need the movie eh?  
To: info-hams@ucsd.edu

The Firm, with Tom Cruise... Pretty good movie also!

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Date: Wed, 30 Jun 1993 16:21:27 MDT  
From: destroyer!cs.ubc.ca!unixg.ubc.ca!kakwa.ucs.ualberta.ca!alberta!adec23!  
ve6mgs!usenet@uunet.uu.net  
Subject: Two-Line Orbital Element Set: Space Shuttle  
To: info-hams@ucsd.edu

The most current orbital elements from the NORAD two-line element sets are carried on the Celestial BBS, (513) 427-0674, and are updated daily (when possible). Documentation and tracking software are also available on this system. As a service to the satellite user community, the most current elements for the current shuttle mission are provided below. The Celestial BBS may be accessed 24 hours/day at 300, 1200, 2400, 4800, or 9600 bps using 8 data bits, 1 stop bit, no parity.

Element sets (also updated daily), shuttle elements, and some documentation and software are also available via anonymous ftp from archive.afit.af.mil (129.92.1.66) in the directory pub/space.

STS 57  
1 22684U 93181.24999999 .00002621 00000-0 47567-4 0 258  
2 22684 28.4577 253.0271 0060772 94.2323 119.2302 15.44738307 1340

--  
Dr TS Kelso Assistant Professor of Space Operations  
tkelso@afit.af.mil Air Force Institute of Technology

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Date: Sun, 27 Jun 93 21:41:00 -0500  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!usenet.ins.cwru.edu!ncoast!pcohio!  
gary.gabriel@network.UCSD.EDU  
Subject: Yaesu FT-202R Manual Needed  
To: info-hams@ucsd.edu

Anyone out there have any idea where I might get a hold of a manual for a Yaesu FT-202R ? It's old, but it still works. A manual and

schematic would be good. If you have any ideas please let me know.

Thanks.

Gary N8YSV

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Date: Thu, 1 Jul 1993 06:21:17 GMT  
From: usc!howland.reston.ans.net!ux1.cso.uiuc.edu!uchinews!cs.umd.edu!afterlife!  
wapembe@network.UCSD.EDU  
To: info-hams@ucsd.edu

References <1993Jun29.214015.153750@locus.com>,  
<30JUN199307005907@nssdca.gsfc.nasa.gov>, <1993Jun30.103813@iastate.edu>  
Subject : Re: The one black spot on my Field Day (longish)

from various previous posts. more or less....

>> Also, you are absolutely right about the issue. As long as you identify  
>> every 10 minutes and at the end of transmission with full callsign, the  
>> FCC requirement is fulfilled.

o.k. i'll ask about the following scenario. you are trying to get a station  
to complete a list of qso's. a station that you want. it's a pile up. so  
you call "k0" or even "abc" (your call is k0abc) for over 10 minutes and  
you haven't been watching the clock. isn't it just better to go ahead and  
send k0abc? you are on the safe side, and if you get tired, disgusted or have  
to leave you can without jumping on and sending k0abc qrt. is it really that  
big a deal (read advantage) to only sending part of the call? my only \$.02  
left. cul.

--  
-- wapembe@afterlife.ncsc.mil/president of BillCo./ka3yyr |development |  
| | |Our Motto: "Better Programming Through Osmosiszzz...." | this part |  
|---|---|"Life is for entertainment purposes only. All other use voids warranty."  
|\_\_|\_\_|DoD# 12543 Doh# 0000012543 @&>\o |8={})}

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Date: Thu, 1 Jul 1993 00:41:47 GMT  
From: usc!howland.reston.ans.net!darwin.sura.net!news-feed-2.peachnet.edu!news-  
feed-1.peachnet.edu!umn.edu!csus.edu!netcom.com!netcomsv!bongo!  
julian@network.UCSD.EDU  
To: info-hams@ucsd.edu

References <1993Jun28.165729.3404@news.unomaha.edu>,  
<1993Jun29.151124.28334@bongo.tele.com>, <C9FqCM.1KB@hpuerca.atl.hp.com>n.edu  
Subject : Re: Field Day. A bummer!

In article <C9FqCM.1KB@hpuerca.atl.hp.com> edh@hpuerca.atl.hp.com (Ed Humphries) writes:

>In <1993Jun29.151124.28334@bongo.tele.com> julian@bongo.tele.com (Wayne Greene) writes:

>

>> 1. What we are going to do on field day.

>> 2. What we did on field day.

>

>> But to be fair, sometimes to relieve monotony they do

>> sometimes discuss the other subject:

>

>> What's wrong with the club repeater and when are we going to  
>> fix it.

>

>> Sound like your local club?

>

>I'll bite! I was a member and then president of the Williamson County  
>ARC (in central Texas) before moving to Georgia a few months ago. We  
>had scheduled speakers every month

Sure, every club has speakers. I mentioned I was often one. This is how I get to visit all these clubs. I then mentioned that clubs talk about the subjects above - even yours, as you are going to prove below:

>

>Of course we also had "business" topics. When the repeater amplifier  
>broke, the appropriate committee reported what happen, what action  
>was being taken, and what (if anything) was needed from other members.

This subject was described by me as: "What's wrong with the club repeater and when are we going to fix it."

>The field day committee recruited help as needed and ran \_very\_ nice  
>FD activities the three years I was involved (missed them this year!).

This subject was described by me as:

" 1. What we are going to do on field day.  
 2. What we did on field day."

>

>With the volume of talent and knowledge amoung amatuers, it seems to me  
>that any club with the dull agenda listed by Julian (er, excuse me,  
>Wayne Greene!) has officers who aren't even trying and members who are  
>letting them get away with it!

Well, your club seems no differnt than the clubs I described.

--  
Julian Macassey, N6ARE julian@bongo.tele.com Voice: (213) 653-4495  
Paper Mail: 742 1/2 North Hayworth Avenue, Hollywood, California 90046-7142

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Date: Thu, 1 Jul 1993 07:20:45 GMT  
From: pacbell.com!unet!loren!larson@network.UCSD.EDU  
To: info-hams@ucsd.edu

References <1993Jun30.170512.23941@peavax.mlo.dec.com>, <20sjct\$5ot@dr-pepper.East.Sun.COM>, <C9G5v4.20p@sugar.NeoSoft.COM>  
Subject : Re: Repeater coordination, complaints?

In article <C9G5v4.20p@sugar.NeoSoft.COM> jreese@NeoSoft.com (Jim Reese) writes:

>PUHLEEEZE! I'm so tired of listening to people whine about putting a \$40 PL  
>decoder in their \$300 radios. The commercial radio guys have used PL for  
>decades now to combat exactly the scenario described in this post. Why  
>are hams so darn cheap anyway?

Unfortunately, the PL needs to be settable in some semi-convenient way for those who may listen to multiple repeaters. It should get its tuning information from the memories of the rig. Not everyone runs single-channel boatorolas.

There should also be some way for the PL demodulator to be able to tell the scanner mechanism that the signal on this memory is not one I am interested in, and it should skip that in the scan unless the correct PL is present. This is not available in any PL decoder that I have seen.

Many of us would have to buy more than a PL decoder. We would need to buy a rig with a spot for a PL decoder. It would need provisions for controlling that decoder and interfacing with it.

Then, when the repeaters are that close, we need some way to prevent the squeals and signal blockages when they come up while ours is in use, and their repeater output jams our repeater's output.

It is not all that simple.

Alan

---

Date: Wed, 30 Jun 1993 18:18:36 GMT  
From: psinntp!uuneo!sugar!jreese@uunet.uu.net  
To: info-hams@ucsd.edu

References <20sami\$594@dr-pepper.East.Sun.COM>, <20scrhINN8f5@network.ucsd.edu>, <20sit7\$5nc@dr-pepper.East.Sun.COM>  
Subject : Re: Repeater coordination, complaints?

In article <20sit7\$5nc@dr-pepper.East.Sun.COM> jimv@hienergy.East.Sun.COM (Jim Vienneau - Sun Microsystems) writes:

>Requiring all the users to buy PL decode  
>boards is not an ideal option either.

Maybe not, but it will solve the problem in this case.

--  
Jim Reese, WD5IYT | "Bad times bring out the best in Texans, good times  
jreese@sugar.neosoft.com | bring out the worst." --Molly Ivins

---

Date: Wed, 30 Jun 1993 18:25:50 GMT  
From: psinntp!uuneo!sugar!jreese@uunet.uu.net  
To: info-hams@ucsd.edu

References <20sami\$594@dr-pepper.East.Sun.COM>, <1993Jun30.170512.23941@peavax.mlo.dec.com>, <20sjct\$5ot@dr-pepper.East.Sun.COM>  
Subject : Re: Repeater coordination, complaints?

In article <20sjct\$5ot@dr-pepper.East.Sun.COM> jimv@hienergy.East.Sun.COM (Jim Vienneau - Sun Microsystems) writes:

>  
>>The recommendation was exactly as Brian suggested; install tone encode on the  
>>repeater transmitter; cost is about \$20, very cheap solution.  
>  
>Very cheap for the repeater owner perhaps, but not the users. Perhaps you  
>didn't notice that PL decode is optional on most mobile rigs? Again, your  
>answer is "let them do what ever they want, you'll have to compensate".  
>This is a cop-out. If everyone's running legal limit with PLs, what a fine  
>mess we'll have. Sounds like the foxes are watching the chicken coup.

PUHLEEEZE! I'm so tired of listening to people whine about putting a \$40 PL decoder in their \$300 radios. The commercial radio guys have used PL for decades now to combat exactly the scenario described in this post. Why are hams so darn cheap anyway?

I'd also bet that the guy isn't running "legal limit" 1500 Watts on a repeater transmitter would be hard to maintain...He probably just has a good site.

Quit whining and cough up the \$40.

--

Jim Reese, WD5IYT | "Bad times bring out the best in Texans, good times  
jreese@sugar.neosoft.com | bring out the worst." --Molly Ivins

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End of Info-Hams Digest V93 #803  
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